

SLELINGER IN.

USSR/Physics Nonlinear friction

FD-1231

Card 1/1

Pub. 153-15/22

Author

: Slezinger, I. N.

Title

: Motion of a very simple mechanical system under the action of elastic

forces and nonlinear friction

Periodical

: Zhur. tekh. fiz., 24, 1660-1676, Sep 1954

Abstract

: Analyzes the second-order differential equation mx" + cx = af (x',t) which expresses a system with one degree of freedom. Finds that this type of motion depends not only in quantity but also in quality on the parameters of the system (m,c), on the characteristics of friction and the velocity of the slider. Finds his analysis valuable for machine

construction. Four references.

Institution :

Submitted

: December 2, 1953

SLEZINCER, I. W. USSR/Engineering - Shock absorbers 1/1 Pub. 128 - 2/32 Card Erlikh, L. B. and Slezinger, I. N. Authors Shock absorbers Title Vest. mash. 34/7, 5 - 9, July 1954 Periodical A report is presented on the theory of operation and function of shock Abstract absorbers. Oscillation calculations of shock absorbers, are given, together with a description of a shock absorber for aircraft engine mounts, designed by I. V. Ana'ev. Six references. Illustrations; diagrams; drawings. Institution : Submitted

The second se

SLEZINGER, I. N.

"On One Method of Solving Linear Boundary Value Problems of the Self-Adjoint Type," by I. N. Slezinger, Odessa, Priklednaya Matematika i Mekhanika, Vol 20, No 6, Nov/Dec 56, pp 704-713 submitted for publication 4 Jun 55

The author presents a general method of solving a multidimensional self-adjoint linear boundary differential problem, having boundary conditions sufficiently general in nature, on the basis of the known solution to the so-called "more rigid" problem corresponding to that being solved.

Sum 1258

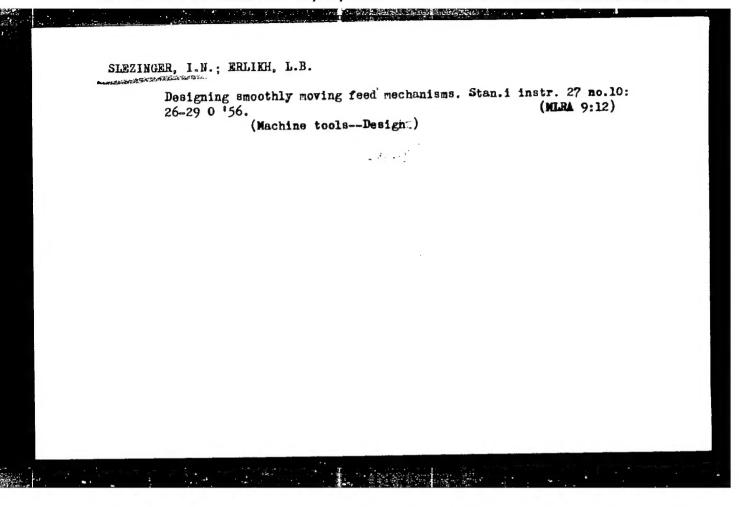
SLEZINGER, I. N.

"On the Lateral Flexure of a Freely Supported Elliptical Plant," by I. N. Slezinger, Odessa, <u>Inzhenernyy Sbornik</u>, Vol. 23, 1956, pp 105-110

This work presents a general solution to the problem of the flexure of an elliptical plate freely supported along its contour and under the action of an arbitrary load which is symmetric relative to the major axis of the ellipse. For the case of uniform pressure and load concentration at the center, the solution is carried to final analytical formulas. The solution is based on the use of a special orthonormalized system of biharmonic functions, which simplifies the derivation of higher order approximations and therefore permits the evaluation of the degree of accuracy of the resultant solutions.

The article was submitted for publication in March 1954.

Sum 1219



SLEZINGER, I.W. [Slezinher, I.N.] (Odesa)

Problem of the bending of a flexible rectangular plate [in Ukrainian with summaries in Russian and English]. Prykl. mekh.
3 no.4:460-466 '57.

1.Odes'kiy elektrotekhnichniy institut zv'yazku.

(Elastic plates and shells)

SLEZINGER, I.N. (Odesa)

Castigliano's principle in the nonlinear theory of elasticity [with summary in English]. Pry 15 mekh. 5 no.1:38-44 '59.

(MIRA 12:6)

1. Odes'kiy elektrotekhnichniy institut zv'yazku. (Elasticity)

S/044/62/000/005/032/072 0111/0333

LUTHOR:

Slezinger, J. N.

TITLE:

On variation theorems of non-linear elasticity

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 5, 1962, 96, abstract 5B432. ("Bul. Inst. politehn. Jași", 1959, 5,

no. 3-4, 83-86)

TEXT:

The author gives the functional  $I(u_m, K_{i,j}, \mathcal{X}_{i,j})$  which

depends on the components of the displacement vector, the stress tensor and the deformations. The functional I has three summands: 1) Volume integral; 2) Surface integral which extends over that portion of the surface where the stresses are given; 3) Surface integral over that part of the surface where the displacements are given. It is shown: If the variational principle is complemented by the compatibility conditions for the deformations, then the principle of stationary energy is obtained (Novozhilov, V. V., Teoriya uprugosti [ Elasticity theory], M., 1958). By adding other conditions the author obtains various variational principles (by E. Reissner, K. Z. Galimov, and others).

[Abstracter's note: Complete translation.] Card 1/1

Designing mechanisms with screw pairs for fine intermittent feed.

Nauch.zap.Od.politekh.inst. 14:18-26 159. (MIRA 14:3)

(Feed mechanisms)

SLEZINGAR, I.E. (Odessa)

Application of Castigliano's principle in the theory of flexible

elastic plates. Prykl. aski. 7 no. 1:96-102 '61.

1. Odesskiy elektrotekhnichesniy institut svyazi. (Blastic plates and shells)

30322

S/145/61/000/009/001/003 D221/D301

1327 24.4200

AUTHORS:

Slezinger, I.N., Candidate of Technical Sciences, Docent, and Erlikh, L.B., Candidate of Technical

Sciences, Docent

TITLE:

Loss of stability of round zones on the surface

layer of machine components

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Mashino-

stroyeniye, no. 9, 1961, 55-61

The phenomenon of loss of surface stability differs from that usually considered in engineering. The latter is related to the deformation of the whole component, whereas the former has a local character. The close bond between the surface layer and remaining mass of the body complicates the formation of the model for investigating the phenomenon. The author bases his simplified calculation procedure on the significant stress gradient due to surface loading. An assumption is made that in the considered elastic partial space, the individual sections of a thin surface layer tend to

Card 1/4

303**22** S/145/61/000/009/001/003 D221/D301

Loss of stability ...

deform, and they have a circular shape and a symmetrical deformation. Its element is subject to the following loads. Radial compressive forces are distributed on its sides owing to interaction with the remaining layer. The radial, tangential and normal forces on the lower base of the element follow the interaction with the elastic partial space. The authors quote a general equation for the symmetrical deformation of circular plate attached to the solid base. The approximate calculation of the action due to the solid base on the plate is achieved with the use of single layer model proposed by V.Z. Vlasov and H.W. Leont'yev (Ref. 1: Balki, plity i obolochki na uprugom osnovanii (Beams, Plates and Shells on an Elastic Base), Fizmatgiz, M., 1960). This results in

 $\begin{cases} D \nabla^{4} w + \left[ (1+\alpha) P - T \right] \nabla^{2} w - \frac{\alpha P}{R^{2}} \frac{1}{\rho} (\rho^{3} w^{\dagger})^{\dagger} + Kw + \frac{\beta P}{R} = 0 \\ w^{\dagger}(0) = w^{\dagger}(R) = w(R) = 0 \qquad \left( \beta = k \frac{h}{R} \right). \end{cases}$ (5)

which defines the boundary problem. The approximate solution is

Card 2/4

30322 S/145/61/000/009/001/003 D221/D301

Loss of stability ...

appearance to be evaluated. From the above, a conclusion is drawn that the compressive load decreases with the depth from the surface layer. On account of its rapid rate of reduction, an approximation can be made whereby the actual state is replaced by the above method. The surface layer is often in a plastic condition, and thus the tangential modulus of elasticity should be used in the expression of the cylindrical stiffness D. There are 1 figure and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION:

Odesskiy politekhnicheskiy institut. Elektrotekhnicheskiy institut svyazi (Odessa Polytechnic Institute. Electrotechnical Institute of Communications)

SUBMITTED:

April 20, 1961

Card 4/4

SLEZINGER, I.N. [Slezinher, I.N.] (Odessa)

Monlinear plane deformation of elastic solids with a rectangular cross section. Prykl.mekh. 8 no.3:330-336 '62. (MIRA 15:6)

MATSIYEVSKIY, Anatoliy Gavrilovich; ERLIKH, Lazar' Borisovich; Prinimali uchastiye: SLEZINGER, I.N., kand.tekhn.nauk, dots.; MENAKER, L.S., inzh.; RABINOVICH, I.Sh., inzh.; SVIRIDENKO, S.Kh., red.; ORLIKOV, M.L., dots., retsenzent; BYKOVSKIY, A.I., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Efficient organization of machine-tool design] Ratsionalizatsiia raschetov pri konstruirovanii stankov. Pod red. S.Kh.Sviridenko. Moskva, Mashgiz. 1962. 127 p. (MIRA 15:7)

(Machine tools-Design)

SLEZINGER, I.N. [Slezinher, I.N.] (Odessa); BARSKAYA, S.Ya. [Bars'ka, S.IA.] (Odessa)

Nonlinear plane deformation of an elastic space with a sealedin circular cylinder. Prykl. mekh. 10 no.3:317-323 '64. (MIRA 17:6)

1. Odenskiy elektrotekhnicheskiy institut svyazi.

BARSKAYA, S. Ya. [Bars'ka, S. IA.]; SLEZINGER, I.N.

Buckling of the surface layer of a circular cylinder under strong axisymmetric heating. Dop. AN URSR no.6:749-752.63 (MIRA 17:7)

1. Odesskiy elektrotekhnicheskiy institut svyazi. Predstavleno akademikom AN UkrSSR G.N. Savinym [Savin, H.M.]

SLEZINGER, I.N., kand. tekhn. nauk, dotsent

Calculating nonlinear deformations of certain perts. Izv. vys.

(MIRA 18:5)

ucheb. zav.; mashinostr. no.1:34-50 '65.

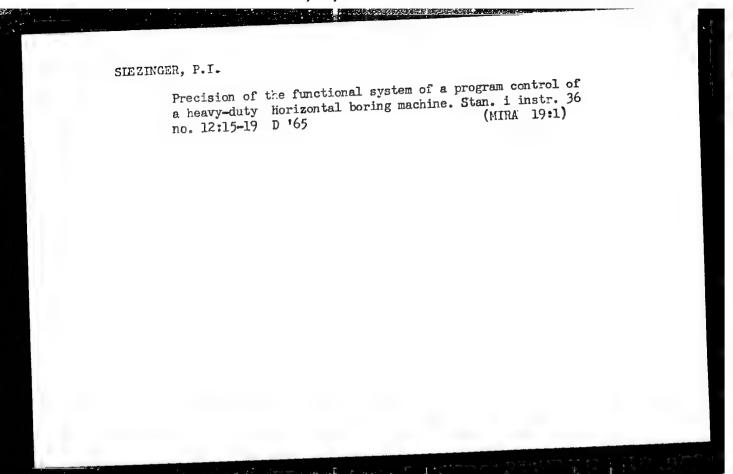
BRESLAV, I.Z.; SLEZINGER, P.I.; FEL'DMAN, A.V.; KRUSHCHEV, A.P.

Converters of phase-type control systems of electric drives.

[MIRA 17:11]

Elektrichestvo no.7:48-53 Jl 164.

l. Novosibirskiy nauchno-issledovatel'skiy elektrotekhnicheskiy institut.



SLEZINGER, S.I.; PROKOF'YEVA-BEL'GOVSKAYA, A.A.

Succession of DNA replication in plots of large chromosomes in man. Dokl. AN SSSR 161 no.2:459-462 Mr 165. (MIRA 18:4)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR. Submitted December 16, 1964.

PROKOF'YEVA-BEL, GCVSKAYA, A.A.; SLEZINGER, S.I.

DNA replication in homologous human chromosomes. Dokl. AN SSSR (MIRA 18:5) 162 no.3:681-684 My '65.

1. Institut radiatsionnoy i khimicheskoy biologii AN SSSR. Submitted December 16, 1964.

SLEZKIN, L. N. (Engineer)

"Effect of joints between channels in triaxial gyro-stabilized platform."

report presented at the Scientific-technical Conference on Modern Gyroscope Technology Ministry of Higher and Secondary Special Education RSFSR, held at the Leningrad Institute of Precision Mechanics and Optics, 20-24 November 1962.

(Izv. vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 6, no. 2, 1963)

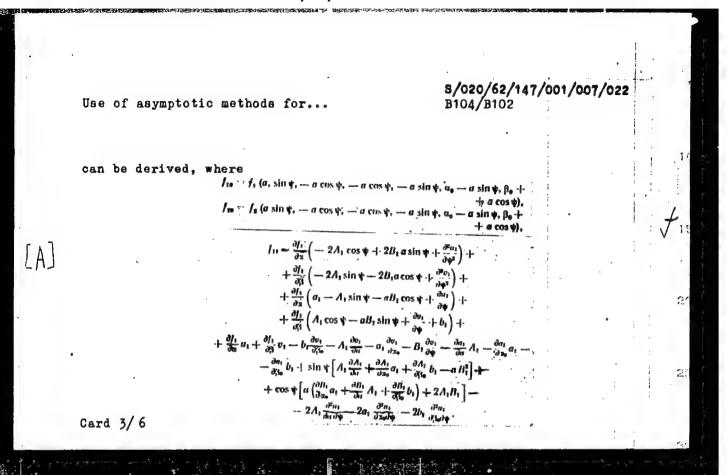
SLEZKIN, L. N. and KLIMOV, D. M. (Candidate of Physical and Mathematical Sciences)

"Use of asymptotic methods in solving problems of the motion of an astatic gyroscope in gymbol suspension"

report presented at the Scientific-technical Conference on Modern Gyroscope Technology Ministry of Higher and Secondary Special Education RSFSR, held at the Leningrad Institute of Precision Mechanics and Optics, 20-24 November 1962

(Izv. vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 6, no. 2, 1963)

42539 13.2520 S/020/62/147/001/007/022 B104/B102 24410 Slezkin, L. N. AUTHOR: Use of asymptotic methods for studying gyroscopic systems TITLE: PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 1, 1962, 57 - 59 15 The solution to system TEXT:  $\ddot{a} + \dot{\beta} = \epsilon f_1(\ddot{a}, \ddot{\beta}, \dot{a}, \dot{\beta}, \alpha, \beta);$ (1)  $\ddot{\beta} = \dot{a} = \epsilon f_1 (\ddot{a}, \ddot{\beta}, \dot{a}, \dot{\beta}, a, \beta),$ has the form 20  $a:=a_0\cdots a\sin \psi+\varepsilon u_1\left(a,\psi,u_a,\beta_a\right)+v^2u_2\left(a,\psi,u_a,\beta_a\right)+\cdots$  $\beta := \beta_{\bullet} + a \cos \phi + \epsilon \sigma_{2} \left( a, \psi, \alpha_{\bullet}, \beta_{\bullet} \right) + \epsilon^{2} \sigma_{2} \left( a, \psi, \alpha_{\bullet}, \beta_{\bullet} \right) + \cdots$ where  $\epsilon$  is a small parameter,  $u_i$  and  $v_i$  are periodic functions of  $\psi$  with the period  $2\pi$ ; and  $\infty$ ,  $\beta$ , a,  $\psi$  are determined from Card 1/6



Use of asymptotic methods for ...

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53

An analogous expression is arrived at for f<sub>21</sub>. Fourier series representations

$$f_{10} = g_{10}(a, \alpha_0, \beta_0) + \sum_{\substack{n \ge 1 \\ n \ge 1}}^{\infty} [g_{1n}(a, \alpha_0, \beta_0) \cos n\phi + h_{1n}(a, \alpha_0, \beta_0) \sin n\phi],$$

$$f_{20} = g_{20}(a, \alpha_0, \beta_0) + \sum_{\substack{n \ge 1 \\ n \ge 1}}^{\infty} [g_{2n}(a, \alpha_0, \beta_0) \cos n\phi + h_{2n}(a, \alpha_0, \beta_0) \sin n\phi],$$

$$u_1 = v_0^a(a, \alpha_0, \beta_0) + \sum_{\substack{n \ge 1 \\ n \ge 1}}^{\infty} [v_n^n(a, \alpha_0, \beta_0) \cos n\phi + w_n^n(a, \alpha_0, \beta_0) \sin n\phi],$$

$$v_1 = v_0^h(a, \alpha_0, \beta_0) + \sum_{\substack{n \ge 1 \\ n \ge 1}}^{\infty} [v_n^h(a, \alpha_0, \beta_0) \cos n\phi + w_n^h(a, \alpha_0, \beta_0) \sin n\phi],$$

Card 4/6

Use of asymptotic methods for...

\$/020/62/147/001/007/022 B104/B102

10

substituted in (4) yield

$$b_{1} - g_{10}, \quad a_{1} = -g_{00}; \qquad (6)$$

$$A_{1} = -\frac{g_{11} \cdot h_{11}}{2}, \quad B_{1} = \frac{h_{11} - g_{21}}{2a}, \qquad (7)$$

$$U_{1}^{0} = \frac{h_{11} - g_{11}}{2}, \quad w_{1}^{0} = -\frac{g_{21} \cdot h_{11}}{2}, \quad v_{0}^{0} = V_{0}^{0} = V_{1}^{0} - W_{1}^{0} - U_{1}^{0}; \qquad (7)$$

$$w_{0}^{0} = \frac{g_{2n} - nh_{1n}}{n(n^{2} - 1)}, \quad v_{0}^{n} = -\frac{h_{2n} \cdot h_{2n}}{n(n^{2} - 1)}, \qquad (8)$$

In a similar way, higher-order approximations can be reached. As an example, a study is made of the equation of motion of a balanced gyroscope with cardan suspension on an immobile support, assuming low friction in the suspension axes. There is 1 figure.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: Card 5/6 May 25, 1962, by A. Yu. Ishlinskiy, Academician

KLIMOV, D.M. (Moskva); SLEZKIN, L.N. (Moskva)

Application of asymptotic methods to the solution of problems on the motion of an astatic gyroscope in gimbals. Izv.AN SSSR.-Otd.tekh.nauk.Mekh.i mashinostr. no.3:45-50 My-Je 163.

(MIRA 16:8)

(Gyroscope)

SLEZ.KIN "LIN, W.

AID Nr. 990-6 14 June

SCIENTIFIC-TECHNICAL CONFERENCE ON MODERN GYROSCOPE TECHNOLOGY (USSR)

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 6, no. 2, 1963, 156-158. S/146/63/006/002/010/010

The Fourth Conference on Gyroscope Technology, sponsored by the Ministry of Higher and Secondary Special Education RSFSR, was held at the Leningrad Institute of Precision Mechanics and Optics from 20 to 24 November 1962. The conference was attended by representatives from 93 organizations in 30 School cities, including educational establishments, scientific research institutes, design bureaus, and industrial concerns. The following are some of the topics covered in the 92 papers presented and discussed at the conference. Vibrations of a gyroscope pendulum with a movable suspension in a nonuniform gravitational field: M. Z. Litvin-Sedoy, Senior Scientific Worker; improving dynamic characteristics of some gyro instruments and devices: A. V. Reprikov, Docent, Candidate of Technical Sciences; some problems of the dynamics of a gyroscope with an electric drive installed in a gymbol suspension: S. A.

Card 1/3

AID Nr. 990-6 14 June

SCIENTIFIC-TECHNICAL CONFERENCE [Cont'd]

8/146/63/006/002/010/010

Kharlamov, Engineer; problems of the theory of the inertial method for measuring aircraft acceleration: I. I. Pomykayev, Docent, Candidate of Technical Sciences; determining the drift of a floated-type integrating gyroscope without the use of a dynamic stand: G. A. Slomyanskiy, Docent, Candidate of Technical Sciences; natural damping of nutational vibrations of a gyroscope: N. Y. Gusev, Engineer; motion of a not quite symmetrical gyroscope pendulum with vertically movable support: A. N. Borisova, Aspirant; gyroscope-type inclinometer for surveying vertical freezing wells: V. A. Sinitsyn, Candidate of Technical Sciences; effect of joints between channels in triaxial gyro-stabilized platform: L. N. Slezkin, Engineer; theoretical proposal for the possible design of a generalized gyro instrument: M. M. Bogdanovich, Docent, Candidate of Technical Sciences; problem of drift in a power-type triaxial gyro stabilizer: V. N. Karpov, Engineer; methods of modeling random disturbances in gyro systems: S. S. Shishman, Senior Engineer; method of noise functions for investigating a system subjected to random

Card 2/3

13

AID Nr. 990-6 14 June

SCIENTIFIC-TECHNICAL CONFERENCE [Cont'd]

3/146/63/006/002/010/010

signals: G. P. Molotkov, Docent, Candidate of Technical Sciences; drifts in a gyrostabilized platform as a result of the effect of cross joints under determined and random disturbances: B. I. Nazarov, Docent, Candidate of Technical Sciences; stability and natural oscillations in inhomogeneously rigid gyro systems with backlash under external influences: S. A. Chernikov; methods of designing a gyro vertical with automatic latitude and course corrections: A. V. Til', Candidate of Technical Sciences; use of asymptotic methods in solving problems of the motion of an astatic gyroscope in gymbol suspension: D. M. Klimov, Candidate of Physical and Mathematical Sciences, and L. N. Slezkin; theory of aperiodic gyro pendula: V. S. Mochalin, Docent, Candidate of Technical Sciences; and selecting basic parameters of course gyros by using nomograms: V. P. Demidenko, Engineer. [AS]

Card 3/3

L 10316-63

EWT(d)/BDS--AEDC/AFFTC/AFMDC/APGC/ASD/SSD--Pg-4/Pk-4/P1-4/

Po-4/Pq-4--BC

ACCESSION NR: AP3003453

s/0179/63/000/003/0045/0050

AUTHOR: Klimov, D. M. (Moscow); Slezkin, L. N. (Moscow)

16

TITIE: Application of asymptotic methods to the solution of problems concerning the motion of an astatic gyroscope in gimbal suspension

SOURCE: AN SSSR. Izv. Otdel. tekhn. nauk. Mekhanika i mashinostroyeniye, no. 3, 1963, 45-50

TOPIC TAGS: application of asymptotic methods, solution of differential equations, gyroscope motion

ABSTRACT: A mechanical system described by the nonlinear differential equations given in the Enclosure has been studied. The equations are solved by the Bogolyubov-Mitropol'skiy asymptotic method for a case in which the characteristic determinant of a nonperturbed system has two conjugate pure imaginary roots and two zero roots with linear elementary divisors. Solutions x and y are determined as series in powers of a small parameter for the nonresonance case. A method is

Card 1/3

L 10316-63 ACCESSION NR: AP3003453

described for obtaining first-approximation equations, on the basis of which solutions of the system of differential equations are obtained. By analogous procedure, equations of higher approximations can be derived and solutions by corresponding approximations established. As an example, the motion of an astatic gyroscope in a gimbal (Cardan) suspension with dynamically unbalanced rotor is studied, with small dry and viscous frictions of the gimbal axes taken into account. The system of second-order differential equations describing such a motion is writter in a dimensionless form and then, after certain transformations, reduced to a system of equations similar to those given in the Enclosure. On the basis of the system of first-approximation equations, pecularities of gyroscope motion are analyzed. Orig. art. has: 20 formulas.

ASSOCIATION: none

SUBMITTED: 01Feb63

DATE ACQ: 24Ju163

ENCL: 01

SUB CODE: 00

NO REF SOV: 003

OTHER: 000

Card 2/3

L 10316-63 ACCESSION NR: AP 3003453

ENCLOSURE: 01

$$\ddot{x} + \dot{y} = \varepsilon f_1 (vt, \ddot{x}, \ddot{y}, \dot{x}, \dot{y}, x, y),$$

$$\ddot{y} - \dot{x} = \varepsilon f_2$$
 (vt,  $\ddot{x}$ ,  $\ddot{y}$ ,  $\dot{x}$ ,  $\dot{y}$ , x, y)

where  $\varepsilon$  is a small positive parameter, and  $f_1$  and  $f_2$  are periodic functions with respect to vt with period  $2\pi$ .

Y4\7 Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86

CIA-RDP86-00513R001651320010-2"

8/0179/64/000/004/0145/0147

ACCESSION NR: AP4043899

AUTHOR: Slezkin, L. N. (Moscow)

TITLE: The effect of inertia of Cardan suspension disks on the motion of a gyroscopic integrator of linear accelerations

SOURCE: AN SSSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 4, 1964, 145-147

TOPIC TAGS: gyroscope, gyroscopic integrator, linear acceleration integrator, gyroscope disk inertia, Cardan suspension

ABSTRACT: An unbalanced gyroscope in a Cardan suspension is used as the sensitive element in instruments designed for measuring the apparent velocity of mcving objects (A. Yu. Ishlinskiy). The angular velocity of the external disk of such a gyroscope is given by

(1)

according to the precession theory. This equation is very accurate for existing gyroscopes when the gyroscope has self-excited oscillations with a low amplitude and high frequency actually coinciding with the natural frequency of the instrument. In some cases, the self-excited oscillations are replaced by a conservative system. A time Card 1/3

ACCESSION NR: AP4043899

drift of the gyroscope appears when the disks of the Cardan suspension are not parallel and there are mutation oscillations (K. Magnus). This was analyzed in the paper by D. M. Klimov. The cause is the inertia of the Cardan suspension disks. The equation for motion of a heavy gyroscope in a Cardan suspension is:

$$[A_1 + C_1 + (A + B_1 - C_1)\cos^2\beta] \alpha'' - (A + B_1 - C_1)\alpha'\beta' \sin 2\beta - H \cos \beta\beta' = 0$$

$$(A_1 + A)\beta'' + (A + B_1 - C_1)\alpha'^2 \cos\beta \sin\beta + H\alpha' \cos\beta - mgl \cos\beta = 0$$

$$H = C(Y - \alpha' \sin\beta) = \text{const}$$
(2)

In a gyroscopic integrator, the plane of the inner disk, determined by the axes of rotation of the inner disk and rotor, is almost perpendicular to the axis of rotation of the outer disk, while the turning angle of the inner disk relative to the outer one is small. Therefore, for existing instruments:

$$s'' - A\delta' - \kappa \left[ s'' \left( \beta_a^0 + \delta^a + 2\beta_a \delta \right) + 2 \left( s'' + \omega \right) \delta' \left( \beta_a^0 + \delta \right) \right] - A\delta' \left( \frac{1}{8} \beta_a^0 + \frac{1}{8} \delta^2 + \beta_a \delta \right)$$

$$A\delta'' + s' = -\left( \kappa / A \right) \left( s' + \omega \right)^a \left( \beta_a + \delta \right) + s' \left( \frac{1}{8} \beta_a^0 + \frac{1}{8} \delta^2 + \beta_a \delta \right)$$

$$\left( A = \sqrt{D/J}, \quad \kappa = K/J \right)$$
(3)

Card 2/3

ACCESSION NR: AP4043899

On the basis of equations evolved in the article it is concluded that the motion of the gyroscopic integrator along one of the axes may approximately be taken as consisting of three motions: precession at constant velocity, oscillations with circular frequency superimposed on the precession, and additional motion. The additional motion leads to errors in instrument readings. The relative error of the instrument is expressed as follows:

(4 + B<sub>1</sub> - C<sub>1</sub>)  $a^{2}$  (4 + B<sub>1</sub> - C<sub>1</sub>)  $a^{2}$  (4)

 $\frac{H^{0}(A_{0}+G_{1})\beta_{0}a^{0}}{2(A_{0}+A+B_{1})^{0} \operatorname{mgl}} - \frac{(A+B_{1}-G_{1})a^{0}}{A_{0}+A+B_{1}} - \frac{(A+B_{1}-G_{1})\operatorname{mg}\beta_{0}}{H^{0}}.$ (4)

Orig. art. has: 14 equations and 1 figure.

ASSOCIATION: none

SUBMITTED: 18Apr64

SUB CODE: NG

ENCL: 00

OTHER: 001

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320010-2"

NO REF SOV: 004

L 2943-66 EWT(d)/FSS-2/EEC(k)-2/EED-2/EWA(c) BC

ACCESSION NR: AP5021444

UR/0146/6**5/008/004/**0085/0**099** 

531.383

AUTHOR: Slezkin, L. N.; Wang, Tan-chih

TITLE: Effect of coupling between gyroscopic platform channels

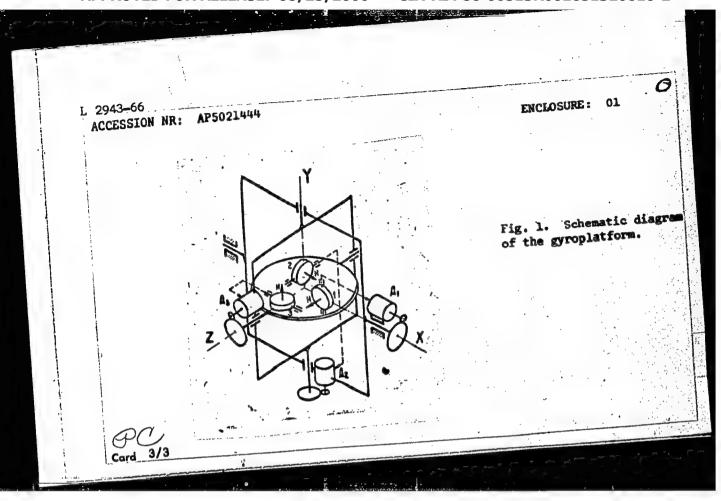
SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 4, 1965, 85-90

TOPIC TAGS: gyroscope motion equation, motion stability

ABSTRACT: Linear coupling between gyroscopic platform channels may be due to the moments of viscous friction in the axes of precession of the gyroscope units, or to the fact that the angle-data transmitters for the angles of precession fix only the relative rotation of the platform and the gyroscope unit. The authors study the effect of these two factors on the stability of several types of gyrostabilizers. It is assumed for simplicity that the angles of deviation of the platform relative to the inertial coordinate system, and the angles of rotation of the gyroscope units are small, and that terms of the second order of smallness may be disregarded. The system is assumed to be made up of absolutely rigid elements. The parameters of the

Card 1/3

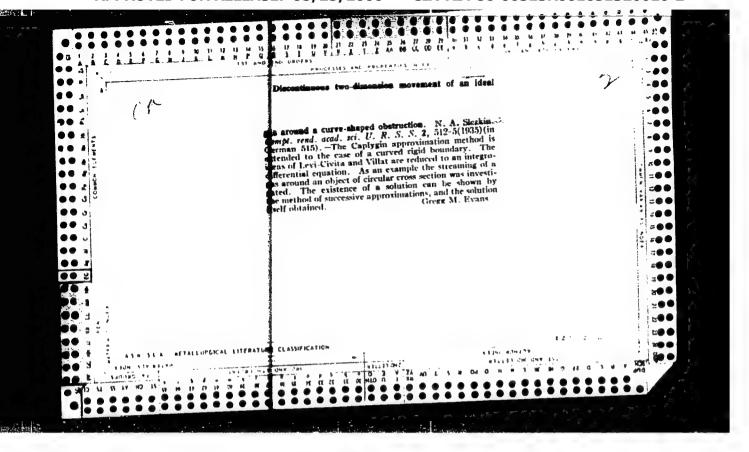
		2
[	base. This system of echase. This system is given a block diagram is given	platform shown in fig. 1 of the Enclosure on platform shown in fig. 1 of the Enclosure on the platform shown in fig. 1 of the Enclosure on the platform shown in fig. 1 of the Enclosure on the subsystems. The platform of the stability of the sta
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	the two lates a moment	of disturbance of dis
	when there is a moment lizer. These linear co art. has: 3 figures, I ASSOCIATION: Moskovsk State University)	of disturbance of dis



SLEZKIN, N.A.

Boundary layer near a plate in a flow with jet separation. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.5:67-78 S-0 '64. (MIRA 17:12)

1. Kafedra gidromekhaniki Moskovskogo universiteta.



Shraha , der.

K voprosu o ploskom uviznemii paza. (pioscow. Universitet. Uchenye zapiski, 1937, no. 7: Hekhanika, p. 43-69, diacrs.)

Surmary in English.

fitle tr.: Problem of the two-dimensional flow of gas.

Q60. M868 1937, no. 7

So. Aerosautical Science and Aviation in the Soviet Union. Library of Congress, 1955.

Shlikin, N.A.

Ob ustanovivshikhslia kapilliarnykh volnaskh. (Moscow. Universitet. Universitet.

CLEMMIN, M.A.

Meustanovivcheesia dviznenie tsilindra v viazkol zhidkosti. (Kos ow. Universitet. Uchenye zapiski, 1940, no. 46: Mekhanika, p. 19-37)

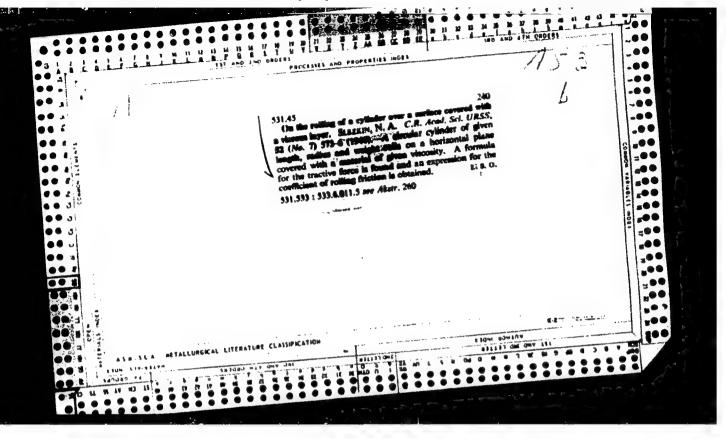
Title tr.: Unsteady motion of a cylinder in a viscous fluid. Q60. M868 19h0, no. 46

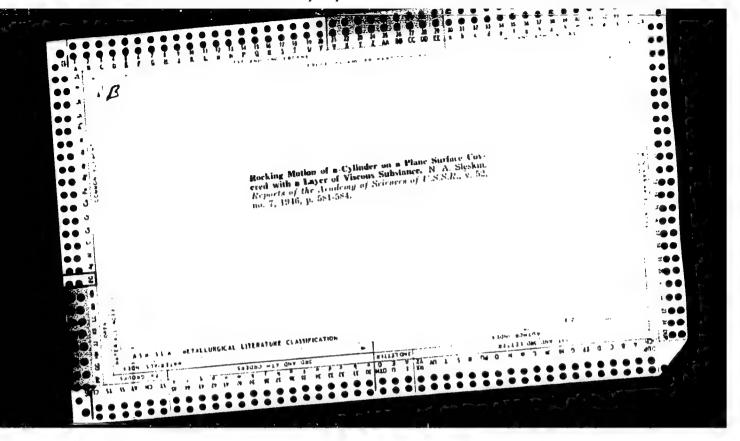
SO. Aeronautical Science and Aviation in the Soviet Union. Library of Congress, 1955.

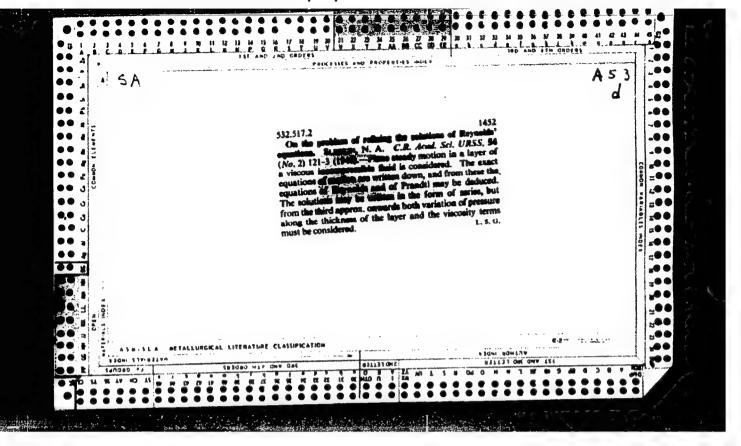
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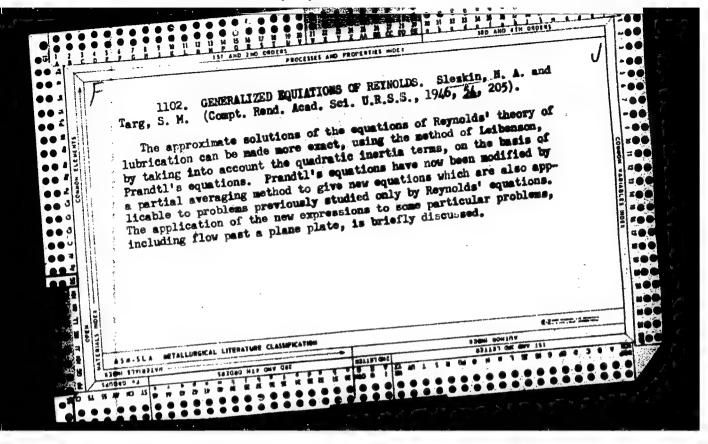
MEZKI . N. A.

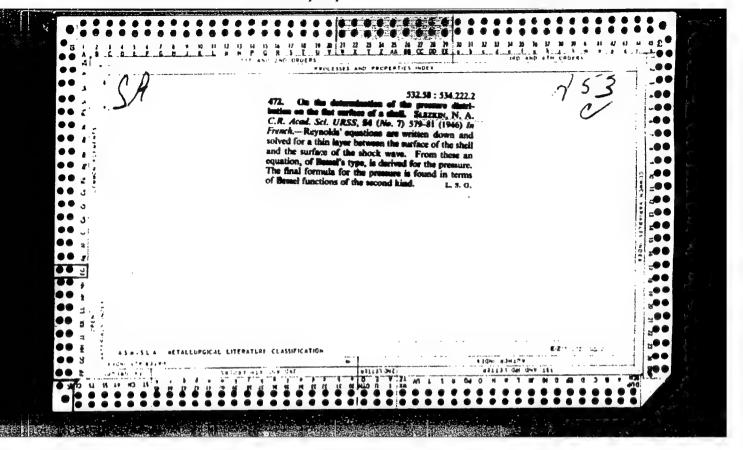
Mor., Artillary Order Lemin & Order Suvarov Acad., Moscow, im. F. E. Dzerzminskiy, -1941-45-. "The Subdwing of Proper Rotation of a Projectile," Dok. AM, 30, No. 4, 1941; "Fenotration of a Thin Flate into a Viscous Medium," ibid., 46, Mo. 1, 1945; "On the Problem of Refining the Solutions of Reynolds' Equations," ibid., 54, No. 2, 1946; "On the Rolling of a Cylinder over a Surface Covered with a Viscous Layer," ibid., 4, No. 7, 1946; "The Beneralized Equations of Reynolds," ibid., No. 3, 1946; "The Distribution Determination of Pressure on the Surface of a Flattened Obus (Shell)," ibid.,











SLEZKIN, N.A.

Ob ustanovivsnikhsiia kapilliarnykh volnakn. (Acseew. Universitet. vehenye napiski, Poli, no. 7: Hekhanika, p. 71-102)

Survaery in English.

Fitle cr.: On steady capillary wavec.

ç60. M668 1937, no. 7

SO. Apponautical Science and Aviation in the Soviet Union. Library of Congress, 1755.

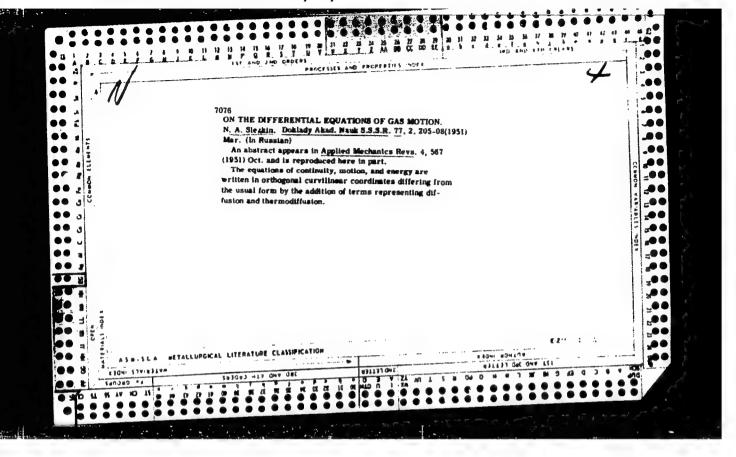
CIA-RDP86-00513R001651320010-2" APPROVED FOR RELEASE: 08/25/2000

SLEZKIN, N. A.

Fluid Dynamics

Level flow of an ideal fluid around a gas-filled envelope. Uch. zap. Mosk. un., No. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.



SLEZKIN, N. A.

USSR/Geophysics - Filtration

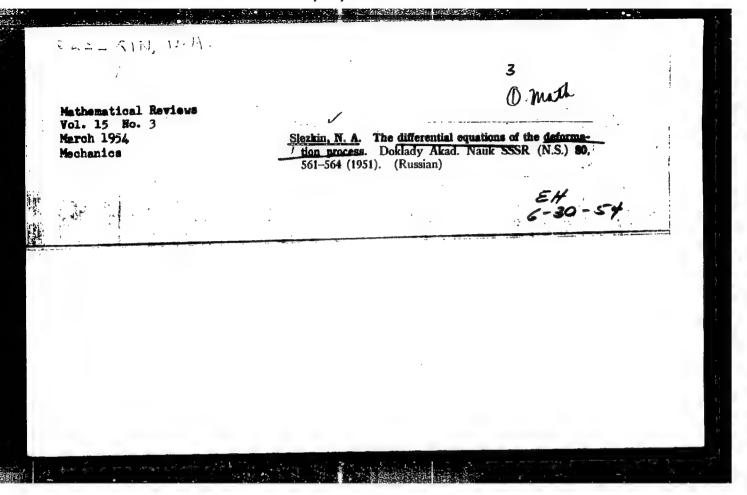
11 Aug 51

"Differential Equations of Filtration," N. A. Slezkin, Moscow State U imeni M. V. Lomonosov

"Dok Ak Nauk SSSR" Vol LXXIX, No 5, pp 755-758

Attempts a new derivation of the familiar eqs describing the motion of a fluid in a porous medium, thus leading up to the problem of the deformations of ground under the action of filtration flow. Previous setting up of these eqs employed assumptions that the ground is immobile and the porosity is const. Submitted by Acad A. I. Nekrasov 16 Jun 51.

210T44



Nonthir list of Susaira Accessions, Library of Jongress, April 1992, this Law Tells

SLEGFIJ, ... 1.

Obtekanie napolnennoi gazom obolocuki ploskim potokom ideal'noi zhidkosti. (Moscow. Universitet. Ucnenye zapiski, 1951, no. 152: Mekhanika, v. III, p. 61-75)

Title tr.: Plane flow of an ideal fluid around a gas-filled shell.

Reviewed by J. V. Wehausen in Mathematical Reviews, 1953, v. 14, no. 5, p. 508

Q60.N868 1951, no. 152

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

SLEZKIN, N. A.	209168	freien Fillssigh tte" 1934, Vol V	USSR/Mathematics - Gaseous Flow (Contd) Mar/Apr 52	Sleakin uses S. A. Chaplygin's method (cf. "Gaseous Floe" 1933, Vol II) to solve problem of impact of gaseous stream against flat wall, providing velocity of stream in infinity is perpendicular to vall. Partial solm of this problem was also given by M. Ye. Zhukovskiy (cf. "Modification of Kirchhoff's Law" 1936, Vol III) and by W. Schach (cf.	"Frik Matemat 1 Nekh" Vol XVI, No 2, pp 227-230	"Impact of Flat Gaseous Stream on a Boundless Wall," I. A. Slerkin, Moscow	USSR/Mathematics - Gaseous Flow Har/Apr 52	The second of the transfer of
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SLEZKIN, N. A.

Evanoration

Frinciples of the hydrodynamic theory of evaporation of moisture by wind. Dokl. AN SSSR 83, No. 1, 1952 Moskovskiy Gosudarstvennyy Universitet im. M. V. Lomonosove. Recd. 28 Dec. 1951.

SO: Monthly List of Russian Accessions, Library of Congress, August 1952 7955, Uncl.

SLEZKIN, N. A.

235T95

USSR/Physics - Hydrodynamics

11 Sep 52

"Differential Equations of Motion of Pulp," N. A. Slezkin

"Dok Ak Nauk SSSR" Vol 86, No 2, pp 235-237

Mechanism of transfer of ground particles by water is similar to that of transfer of water particles or oil by gas in airlifts. Shows that in the subject case of transfer of pulp the eq of motion separates into 2 independent eqs describing the transfer of the mass of each component of the mixt. Submitted by Acad A. I. Nekrasov 5 Jul 52.

235T95

LLE XIII, W. M.

Mathematical Reviews. Vol. 14 No. 8 Sept.1953 Mochanios. the resolution of the motion of a particle.
Nauk SSSR (N.S.) 86, 477–480 (1952). (Russian)

The author points out an analogy between motions of a physical system composed of discrete particles and Helmholtz's theorem for liquid motion. He sets up difference quotients analogous to components of vorticity and deformation rate for a tetrad of points, and studies changes that come about due to translations, rotations, and stretchings. He indicates that these operations can describe the transition from the liquid to the discrete system. The discussion is entirely theoretical, with no illustrations or examples.

R. E. Gaskell (Seattle, Wash.).

SLEZKIN, Frof. N. A.

USSR/Physics - Hydrodynamics

Sep 53

"Generalization of the Helmholtz Theorem on the Resolution of the Motion of a Particle," Prof N. A. Slezkin, Chair of Hydromechanics

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 6, pp 17-33

Continuation of his article (Vest MU, No 10, 1951) in which the author established the differential eqs of motion of a deformable medium of particles with variable mass as an eq of macroscopic transfer of mass, momentum and total energy. Discusses

275T98

here: the relation of Helmholtz's theorem to the theorems on the finite displacements of an absolutely solid body; Helmholtz's theorem for a discrete system of points, and generalization; the variability of the mass of a particle; the method of averaging; the dimensions of a macroscopic particle.

SLEZKIN, N.A.

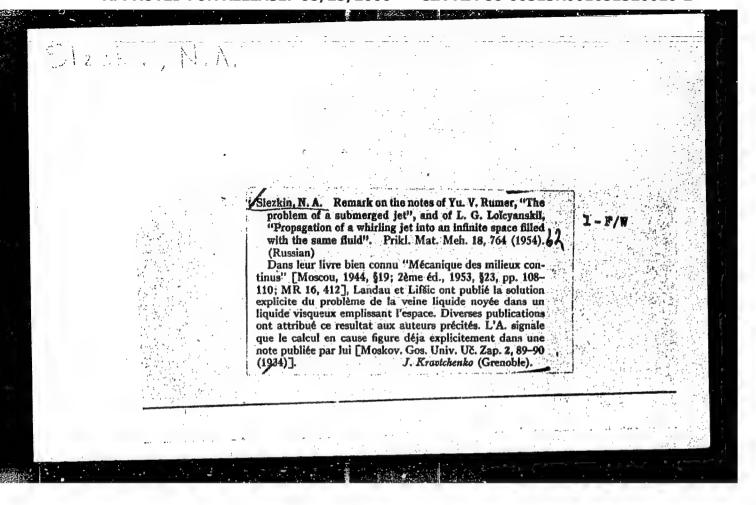
Generalization of Helmholtz's theorems on the analysis of particle dynamics.

Vest.Mosk.un.8 no.9:17-33 S '53.

(MLRA 6:11)

1. Kafedra gidromekhaniki.

(Dynamics of a particle)



SLEZKIN, N. A.

USSR/Aeronautics - Fluid Mechanics

Card

: 1/1

Authors

Slezkin, N. A., and Shustov, S. N.

Title

Stability of motion of a particle suspended in a laminary flow

Periodical

: Dokl. AN SSSR, 96, Ed. 5, 933 - 936, June 1954

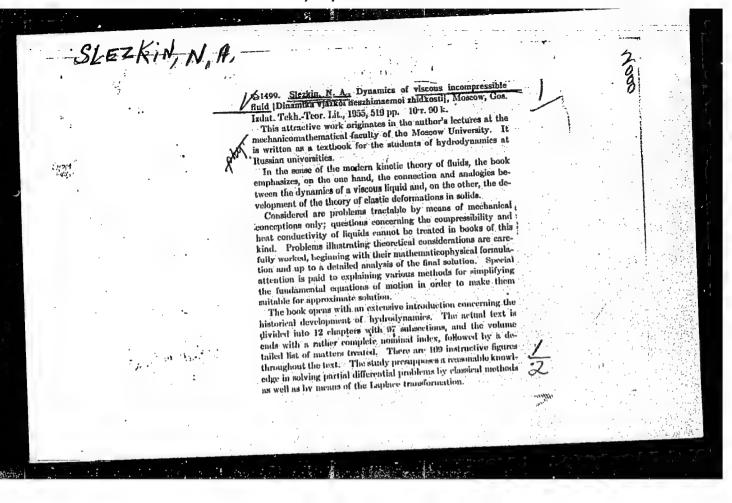
Abstract

: The stability of motion of a particle suspended in a laminary flow was investigated with consideration of a lateral force proportional to the density, circulation and relative rate of flow around the particle. The necessity of considering the lateral force during the study of the motion of a particle in a laminary flow is dictated not only by the results of numerous investigations clearly showing the formation of a lateral force as result of a circulatory flow or as result of the presence of a natural body of rotation, but also by the fact that the formation of the very circulation in the flow is due to the viscosity effect of the li-

quid. Three references.

Institution : The F. E. Dzerzhinskiy Artillery Academy

Presented by : Academician, A. I. Nekrasov, March 11, 1954



SlEZKIN, NA

The following headings of separate chapters will give a more exact idea of the content: I. Deformation vulceities of a particle. Components of stress. II. Differential equations of motion of a viscous liquid. III. General properties of motion of viscous fluids. IV. Cases of integrating exactly the differential equations of steady motion of viscous liquids. V. Motion of a viscous fluid for small Reynolds numbers. The Stokes method. VI. Hydrodynamic theory of lubrications. VII. Motion of a viscous liquid for small Reynolds numbers. The Oscen method. VIII. Theory of boundary layers. IX. Unsteady motion of a viscous incompressible fluid. X. Development of the laminar motion of liquids. XI. Stability of laminar flows. XII. Turbulent motion. Presentation is clear and vivid, paper good, and print legible.

Only a lot of unnecessary misprints and typographical oversights considerably disturb the intellectual enjoyment of reading this scientific work. Reviewer warmly recommends the book not only to specialists in the field of hydrodynamics but also to applied mathematicians and physicists.

V. Vodička, Czechoslovakia

2

RIVER

### SLEZKIN, N.A.

Flow of viscous liquid with a porous bottom as free boundary.

Vest. Mosk. un. Ser. mat., mekh., astron., fiz. khim., 12 no.5:
3-5 '57. (MIRA 11:9)

1.Kafedra gidromekhaniki Moskovskogo gosudarstvennogo universiteta. (Fluid dynamics)

AUTHOR:

SLEZKIN, N.A. (Moscow)

40-4-22/24

TITLE:

On the Flow of a Viscous Liquid Between Porous Parallel Walls (O razvitii techeniya vyazkoy zhidkosti nezhdu parallel'nymi

poristymi stenkami).

PERIODICAL:

Prikladnaya Mat.i Mekh., 1957, Vol. 21, Nr 4, pp. 591-593 (USSR)

ABSTRACT:

Stimulated by investigations of the boundary layer in which the walls are presupposed to be porous (see Wuest, Ing. Arch. 23,3,1955) the author considers the course of the flow of a viscous, incompressible liquid between two parallel porous walls in the stationary, plane case. Under partial consideration of acceleration and viscosity there hold the approximative equations

with corresponding boundary conditions (U is the medium velocity in the cross section). With the aid of the Laplace transformation the author obtains rather complicated solutions for u and p-p (p the external pressure, constant), fur-

thermore a condition under which the pressure in the channel

CARD 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320010-2" on the Flow of a Viscous Liquid Between Porous Parallel Walls 40-4-22/24

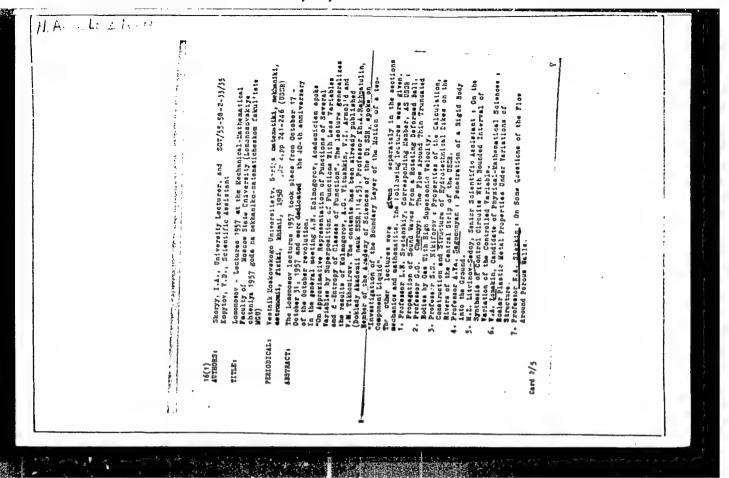
only decreases.

SUBMITTED:

March 19, 1957

AVAILABLE:

Library of Congress



21-58-7-4/27 AUTHOR: On the Theory of the Initial Space of a Plane Laminar Jet of Liquid ( K teorii nachal nogo uchastka ploskey laminar-TITLE: noy strui zhidkosti) Dopovidi Akademii nauk Ukrains kci RSR, 1958, Nr 7, PERIODICAL: pp 702-706 (USSR) Problems on the free and turbulent jets have been treated ABSTRACT: by Schlichting (Ref. 1) and Abramovich (Ref. 2) with the aid of the boundary layer equations. The solutions found, however, are not adequate for the initial space of a jet, because they do not take into account some factors. Therefore, the author expounds the theory of the initial space of a jet flowing into a semispace occupied by the same liquid using approximate equations in which the effects of acceleration and viscosity components are taken into consideration. The motion throughout the entire domain is assumed to be regular and plane parallel. The author derives approximate equations for a plane motion of a viscous incompressible liquid which are reduced; for the pressure, to the Laplace equation, and this is solved by Fourier's method. Analyzing the solution, the author states that the pressure proves to be variable, and a usually made assumption as to the constancy of pressure is applicable Card 1/3

On the Theory of the Initial Space of a Plane Laminar Jet of Liquid

only for cases when the pressure in the cross section of the inflow aperture is equal to that of the medium at infinity. For this particular case, the author derives a simplified expression for the length of the jet core of almost constant velocities. The author solves the equation for the principal velocity component, a non-homogeneous equation of the one-dimensional theory of heat conductivity, using the methods of operational calculus. There are 5 Seviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

Card 2/3

21-58-7-4/27

On the Theory of the Initial Space of a Plane Laminar Jet of Liquid

PRESENTED: By Member of the AS UkrSSR, A.Yu. Ishlinskiy

SUBMITTED: January 22, 1958

NOTE: Russian title and Russian names of individuals and insti-

tutions appearing in this article have been used in the

transliteration

1. Liquid jets--Theory 2. Fourier's Series--Applications

Card 3/3

SUV/179-59-2-1/40

AUTHOR: Slezkin, N. A. (Moscow)

On the Theory of Gas Flow in a Layer Between the Front of of a Rotating Body ጥፐጥ፲፰ : the Shock Wave and the Blunt Edge (K teorii techeniya gaza v sloye mezhdu poverkhnost'yu udarnoy volny i prituplennoy poverkhnost'yu tela vrashcheniya)

PERIODICAL: Izvestiya Akademii nauk SSSR OTN, Mekhanika i mashinostroyeniye, 1959, Nr 2, pp 3-12 (USSR)

ABSTRACT: A method of investigation of the shock wave is described in the article. The layer of gas is divided into the separate sections which are investigated consecutively, to which the linear equations are applied. The velocity of the gas U<sub>20</sub> is considered as being directed along the axis of symmetry of the body, which is assumed to be stationary (figure on p 7). The formulae (1.1) are defined for an instant when the shock wave is affecting a layer (denoted by index A), the thickness of which is h . The maximum value of the modulus U<sub>A</sub> is defined by Eq (1.2). The relationship of viscosity and density  $\mu/\rho$  in the layer is not the same as  $\mu/\rho_{\infty}$ , as  $T_a > T_{\infty}$ ,  $\rho_A > \rho_{\infty}$  due to the increase of the due to the increase of the coefficient of viscosity together with an increase of temperature, i.e.  $\mu_{\mathbf{A}} > \mu_{\infty}$ . Therefore, it can be taken that Card 1/4

CIA-RDP86-00513R001651320010-2"

APPROVED FOR RELEASE: 08/25/2000

SOV/179-59-2-1/40

On the Theory of Gas Flow in a Layer Between the Front of the Shock Wave and the Blunt Edge of a Rotating Body

number obtained from Eq (2.2) will describe the motion of gas in the layer, the parameters of which are shown in Eqs (2.6). In order to transform the formula (2.2) into the linear equations, the variables (3.1) are substituted into Eq (2.2). Thus the formula (3.7) can be derived, which can also be written as Eq (3.8), when  $\rho_1 = 1 + \epsilon \rho$  (Eq 3.5). The dynamic conditions of the front of the wave, in general are defined as Eq (4.1), which in the case of a plane wave, can be shown as Eqs (4.2), (4.3) and (4.4). The projection of the vector of the tension on the normal tnn is given in Eq (4.5) which becomes Eq (4.6) tangent for the parameters (2.1). The expression (3.6) for the particular case when the density varies, can be written as Eq (5.1) for the conditions (5.2). Its solution can be shown as Eqs (5.3) to (5.6) with the characteristic values  $U_{\rm B}$  and T<sub>B</sub> shown in Eqs (5.9), while the approximate value of density can be calculated from Eq (5.10). When the distance is taken as that of the wider part of the layer, the velocity Card 3/4

SOV/179-59-2-1/40

On the Theory of Gas Flow in a Layer Between the Front of the Shock Wave and the Blunt Filge of a Rotating Body

Up increases together with an increase of the Reynolds number (Eq 5.11), while the latter decreases near the axis of symmetry. Thus the above equations define more accurately the conditions at the point near the axis. These conditions can be found from the above equations when x = 0  $\beta = 1/2$  and  $\theta = 1/2$  are substituted in Eqs (6.1) and (6.4). Then Eq (5.6) can be written as Eq (6.5) and the final formula (6.16) can be derived, which describes the required conditions. There is I figure and 8 Soviet references.

SUBMITTED: February 17, 1958.

Card 4/4

SLEZKIN, N.A.

Applying Oseen's method to plane problem in the flow of a heated gas. Vest Mosk. un. Ser. mat., mekh., astron. fiz., khim. 14 no.2: 39-42 '59 (MIRA 13:3)

l. Kafedra aeromekhaniki i gazovoy dinamiki Moskovskogo gosuniversiteta.

(Gas flow)

### CIA-RDP86-00513R001651320010-2 "APPROVED FOR RELEASE: 08/25/2000

AFFTC/ASD/IJP(C)/SSD EPR/EPA(b)/EPF(c)/EWT(1)/EPF(n)-2/BDS L 16728-63 5/124/63/000/004/015/064 Ps-4/Fd-4/Pr-4/Pu-4

AUTHOR:

Slezkin, N. A.

TITLE:

On use of linearized equations for studying motion of gas, with

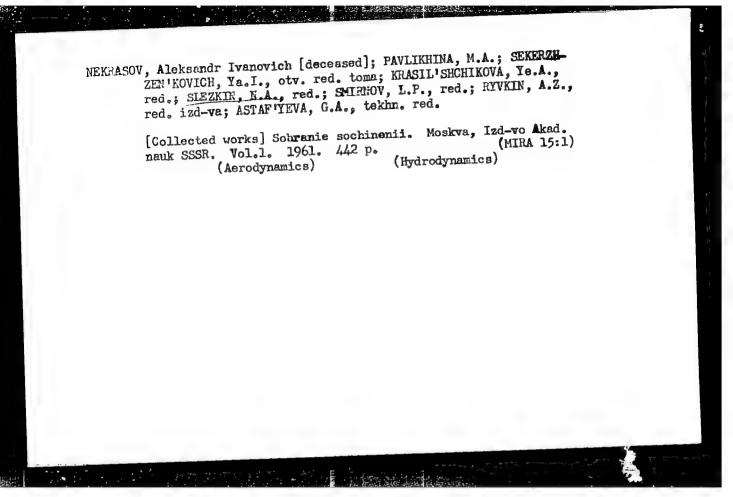
allowance for viscosity and heat conductivity

Referativnyy zhurnal, Mekhanika, no. 4, 1963, 71, abstract 4B488 (Bull.math. Soc. sci. math. et phys. RPR, 4, no. 1, 1960, 85-92) PERIODICAL:

TEXT: Concepts on the possibility and expediency of using linearized equations, particularly the Reynolds and Ozeyen type ones, for studying currents in the layer of a viscous and heat-conducting gas are presented. A conclusion is given for four different systems of such equations and a brief survey is made of reports by the author in which the pertinent equations were used for solving actual problems. S. M. Targ.

[Abstracter's note: Complete translation.]

Card 1/1



NEKHASOV, Aleksandr Ivanovich, akademik; PAVLIKHINA, M.A.;
TUPOLEV, A.N., akademik, otv. red. toma; MHACIL'SHCHIKOVA,
Ye.A., red.; SEKERZH-ZEHIKOVICH, Ya.I., red.; SLEZKIN, N.A.;
red.; SHIRHOV, L.P., red.; GORSHKOV, G.B., red.izd-va;
NOVICHKOVA, N.D., tekhn. red.

[Callested works]Sebrania sochimenii. Moskva, Izd-ve Akad.

[Collected works]Sobranie sochinenii. Moskva, Izd-yc Akad. nauk SSSR. Vol.2. 1962. 706 p. (MIRA 15:12) (Physics) (Mechanics) (Mathematics)

SLEZKIN, N.A., doktor fiz.-matem.nauk, prof.; KORZHAYEV, S.A.

Method for designing hydraulic and pneumatic conveying units

Method for designing hydraulic and pneumatic conveying units suggested by A.E. Smoldyrev. Izv. AN. SSSR. Otd.tekh.nauk.Mekh. i mashinostr. no.1:198-200 Ja-F '62. (MIRA 15:3)

1. Moskovskiy posudarstvennyy universitet.
(Hydraulic conveying)(Pneumatic-tube transportation)

### SLEZKIN, N.A.

Kinematic and dynamic characteristics of a polyatomic molecule. Vest.Mosk.un.Ser. 1: Mat., mekh. 18 no.3:72-81 My-Je '63. (MIRA 16:6)

l. Kafedra gidrodinamiki Moskovskogo universiteta.
(Molecular dynamics)

I 37655-65 EWP(m)/EWT(1)/FCS(k)/EWA(d)/EWA(1) Pd-1

ACCESSION NR: AP4047612

S/0055/64/000/005/0067/0078

19

AUTHOR: Slezkin, N. A.

TITLE: On the boundary layer near a plate in a flow with jet separation

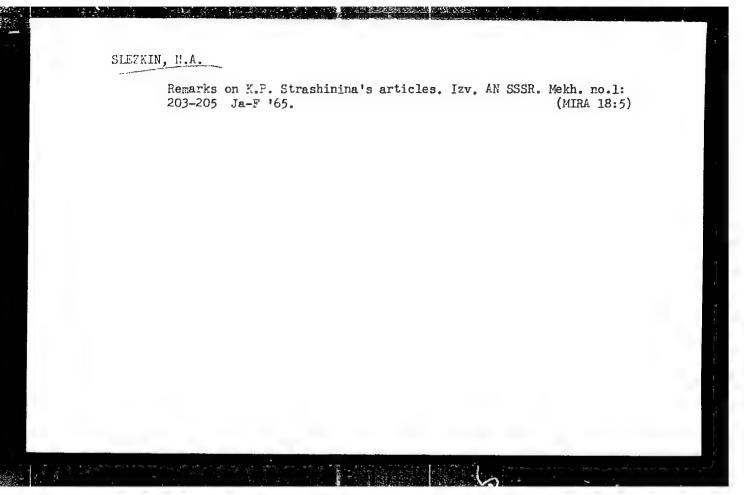
SOURCE: Moscow. Universitet. Vestnik. Seriya 1. Matematika, mekhanika, no. 5, 1964, 67-78

TOPIC TAGS: approximate differential equation, boundary layer problem, jet separation, plate edge, Reynold's equation

ABSTRACT: Approximate differential equations are derived in curvilinear coordinates for a two-dimensional gas flow in a thin layer. The velocity potential and the stream function of the flow of an incompressible fluid with the separation of free streamlines from the edges of the plate are considered as such coordinates. The solution of the approximate generalized Reynolds equations is given and the formula for the thickness of the boundary layer is established.

Card 1/2

ACCESSION NR: AP4047612			
ASSOCIATION: Moskovskogo University, Department of H	o universitet, kafedra ( ydromechanics)	gidromekhaniki ( <u>Moscow</u>	
SUBMITTED: 29Jan64	ENCL: 00	SUB CODE: ME	
NR REF SOV: 002	OTHER: 000		
Card 2/2 1/3			



SLEZKIN, V.A.

Experience in the use of values in gas pipelines. Gaz.
prom. 4 no.3:50-51 Mr '59. (MIRA 12:5)

(Gas, Natural--Pipelines) (Valves)

Fron the whole heart. Prom.koop. 13 no.1:35 Ja '59.

1. Chlen arteli invalidov "Neva," Leningrad.

(Vocational rehabilitation)

SLEZKIHA, A. H.

Agriculture & Plant & Animal Industry.

Hog farm of the "Smychka" State Farm. Saratovskoe obl. gos. izd-vc, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Uncl.

KLYUCHIKOV, V.N.; SLEZKINA, L.I.; KOPSHITSER, I.Z.; SHUSTIKOVA, A.G.

Clinical and genealogical studies of the family of a patient with Thomsen's myotonia. Zhur. nevr. i psikh. 63 no.9:1313(MIRA 17:8)

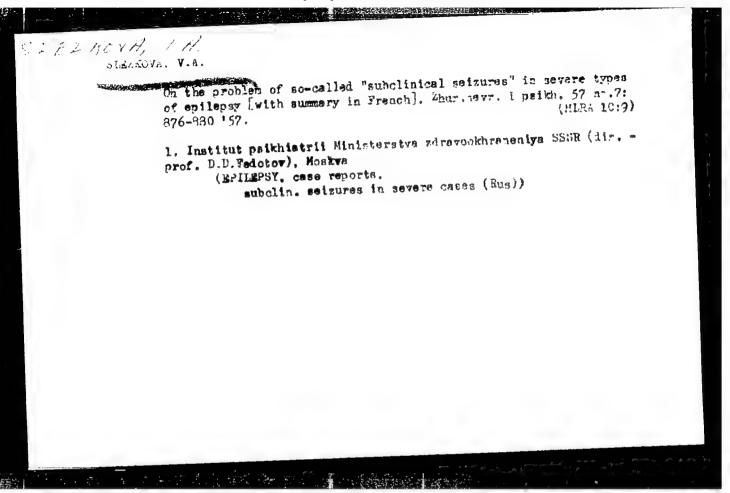
1. Klinika nervnykh bolezney Yaroslavskogo meditsinskogo instituta (zav. kafedroy - dotsent V.N. Klychikov) i nervnoye otdeleniye (zav. A.G. Shustikova) gorodskoy bol'nitsy No. 68 (glavnyy v zach V.M. Knyazev), Moskva.

LOBATSEVICH, N.; SIEZKINA, N.

Straight amplification receiver. V pom. radioliub. no.12:15-20
(MIRA 16:10)

SLEZKOVA, V. A. Cand Med Sci -- (diss) "On the ptoblem of clinical pathophysiological peculiarities during the course of severe forms of epilepsy. (According to observations in children's clinic)." Mos, 1957. 14 pp (Inst of Psychiatry Min of Health USSR), 200 copies (KL, 44-57, 101)

-38-



SLEZKOVA, V.A., YAHOVICH, F.P., KOLBINA, M.S.

School sanatorium for nervous children in Frunze District.

School sanatorium for nervous children in Frunze District.

Zhur. i paikh. 58 no.7:396 '58 (MIRA 11:7)

(FRUNZE DISTRICT-MANDICAPPED CHILDREN)

SLEZNEVA, N.D., kand.med.nauk

Pneumoperitoneum and endoscopic methods of examination in gynecology. Med.sestra 22 no.3:35-39 Mr<sup>1</sup>63. (MIRA 16:6)

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1. Russia (1923 - U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. (Building machinery)

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